HORTICULTURAL SCHOOL.

The School will be in direct charge of the Superintendent, Horticultural Department and managed with the help of the colleagues who are deputed to lecture or teach the students.

FIRST YEAR.

1. *Horticulture.*—Soils and manures, soil cultivation and the necessary implements and tools. Laying out of gardens. Vegetable cultivation. Preventive and remedial treatment of diseases, cultivation of fruits. Methods of propagation of fruit trees, avenue and other economic trees.

2. *Botany.—Study of the structure of plants:*—Detailed morphological studies and a general anatomical knowledge. The method of propagation and reproduction of plants. Relation of plants to the chief factors in their environment. General knowledge of nutrition, growth and response.

3. *Chemistry.*—Outlines of inorganic and organic Chemistry. Simple aliphatic and aromatic compounds, hydrocarbons (carbohydrates), proteins, etc.

4. *Book-keeping.*—Principles of double entry Book-keeping. Maintenance of Cash-book, posting to Ledger. Preparation of balance sheets, etc.

5. *Surveying.*—Rules of superficial and solid mensuration. Theory and practice of simple chain surveying with the use of the cross staff, optical square, field book, etc. Computation of areas. Theory and practice of Survey by means of a Theodolite Elementary Carpentry.

SECOND YEAR.

1. *Horticulture—Horticultural Structures.*—Orchid houses, Nursery buildings, bulb house and other problems associated with the erection of structures essential for horticultural practice. The cultivation of flowering plants in pots, in ground. The cultivation of hardy annuals and perennials, bulbous and Rhizonmetous plants, budding plants, cultivation of Rose plants, and shrubs. Formation of lawns and management. Horticultural Physiology.

2. *Botany.*—General characters of Fungus, common disease of plants and methods of control, characters of Ferns and Conifers. Important families of Angiosperms with special reference to Genera, Species, etc., weeds, their identification and methods of control. Objects and methods of seed testing.

3. *Horticultural Chemistry.*—General outlines of the Chemistry of plant products, glucoides, plant pigments, carbohydrates, fats and proteins.

Soils, materials which go to form the soil, origin and distribution, physical and chemical properties of the soil and their relation to plant growth. Principles of manuring, chemical composition of farm-yard manure and important fertilizers.

4. *Horticultural Entomology.*—Position of insects in the animal kingdom. General classification of insects. Methods of prevention and remedy of insect attacks. Insecticides, their preparation and mode of application. Use of and preparation of fungicides and weed killers.

5. *Economic.*—Rural Economics.

6. *Drawing.*—Drawing and preparation of plants.

Regulation for the Diploma in Horticulture.—Diploma in Horticulture will be granted to a student who has passed :—

(*a*) S. S. L. C. or L. Ag. Examination ;
(*b*) attended the prescribed course of instructions ;
(*c*) satisfied the examiners in the examinations held in the following subjects :—

First year.	*Second year.*
Horticulture.	Horticulture.
Botany.	Botany.
Chemistry.	Horticultural Chemistry and Entomology.
Surveying.	Drawing and Planning.